

### Abstract of the Disclosure

A process for determining the position of an influencing element, using an inductive position sensor, several coils, a capacitor, an amplifier element, at least one changeover switch and an evaluation unit, a selected one of the coils and the capacitor forming a tuned circuit and the tuned circuit and the amplifier element forming an oscillator. Each coil is connected in succession to the capacitor and its impedance measured by the evaluation unit as a function of the position of the influencing element relative to the coil and that coil which is able to determine the location of the influencing element is determined. In further operation, only the impedance of the determined coil or of the tuned circuit formed therewith is measured and used to determine the position of the influencing element, and if the impedance of determined coil changes beyond a threshold amount, the impedance of at least one other coil or tuned circuit is measured.